



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141391

Mode: Highway

Status: Submitted

NC-54

From/Cross Street: NC 119

Specific Improvement Type: 1 - Widen Existing Roadway

To: Orange Grove Road

Project Category: Regional Impact

Length: 11.11

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$89,436,000

Description:

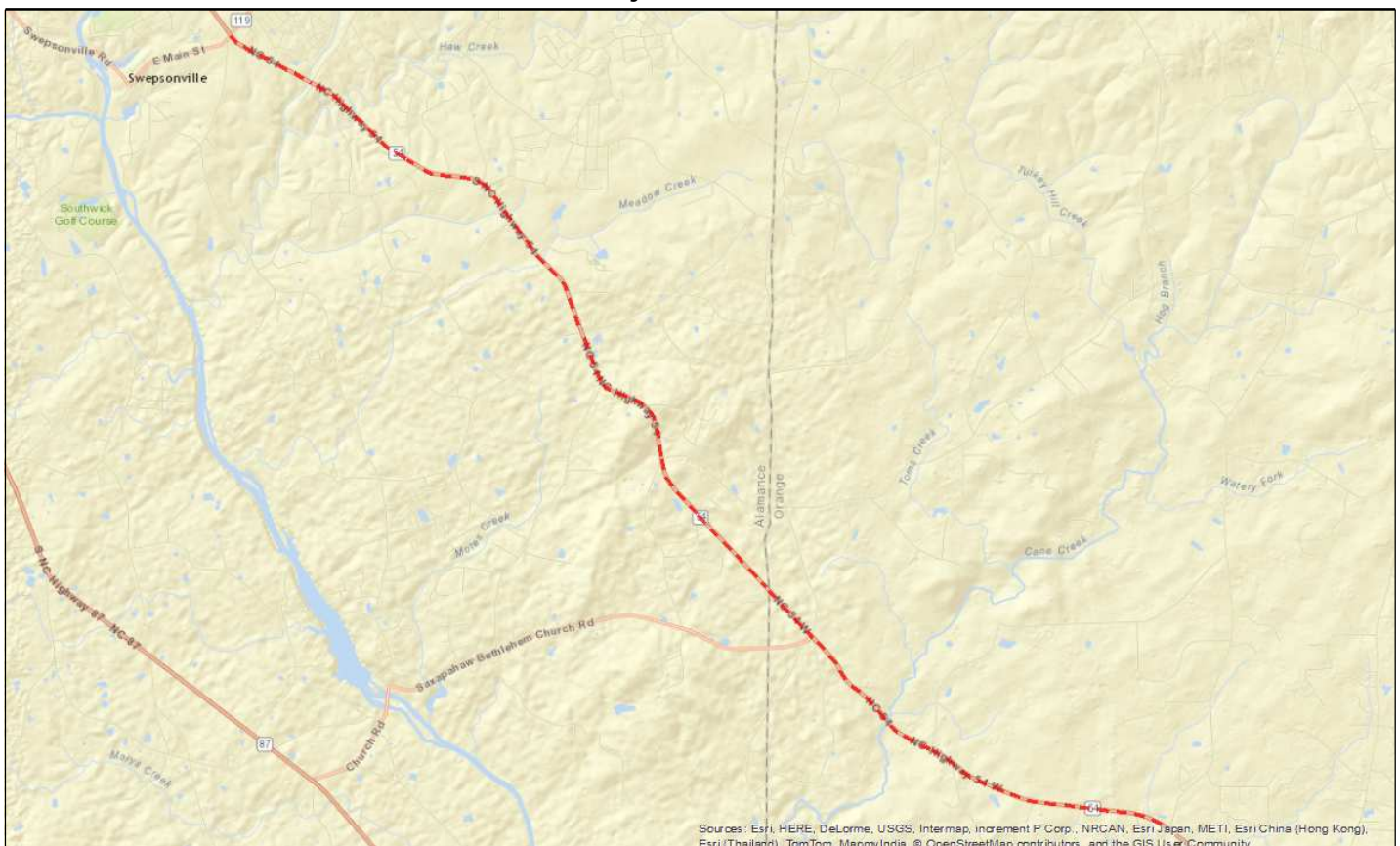
Widen roadway from two-lane undivided to four-lane divided roadway

Division(s): Division 7

County(s): ALAMANCE, ORANGE

MPOS(s)/RPO(s): Burlington Graham MPO, Triangle Area RPO

Project Location



Statewide Mobility Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Totals: Weight: 0% Weighted Score: 0 | N/A | N/A |

Regional Impact Total Score: 34.65

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Safety (10%) 65.15 [Travel Time] Benefit/Cost (25%) 0.27 Congestion (V/C) (25%) 36.06 Accessibility / Connectivity (10%) 40.51 | Percent: 15% Points: 0 | Percent: 15% Points: 100 |
| Totals: Weight: 70% Weighted Score: 19.65 | | |

Division Needs Total Score: 13.78

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Congestion (V/C) (20%) 36.06 Safety (10%) 65.15 [Travel Time] Benefit/Cost (20%) 0.27 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Totals: Weight: 50% Weighted Score: 13.78 | | |

Project Data ***Existing Conditions**

| | |
|---|------------------|
| Existing Cross-Section: | |
| Speed Limit: | 55 |
| Length (miles): | 11.11 |
| Facility Type: | Two Lane Highway |
| Access Control: | None |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Rolling |
| Lane Width: | 12 |
| Paved Shoulder Width: | 4 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 8442.32 |
| Capacity: | 15500 |
| Volume/Capacity Ratio: | 0.54 |
| % Autos: | 95% |
| % Trucks: | 5% |
| Truck Volume: | 408.26 |
| Crash Density: | 89.33 |
| Crash Severity: | 55 |
| Critical Crash Rate: | 51.12 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 2 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 29 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 73 |
| Actual Congested Speed: | 49.23 |
| Travel Time Index: | 1.12 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders |
| Speed Limit: | 55 |
| Length (miles): | 11.11 |
| Facility Type: | Multi-Lane Highway |
| Access Control: | Partial |
| Functional Classification: | Major Collector |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 1064288.54 |
| Travel Time Savings for 30 Years (Autos): | 1012820.33 |
| Travel Time Savings for 30 Years (Trucks): | 51468.21 |
| Long-Term Employment: | |
| % Change in Economy: | |
| Provides Direct Connection to Transportation Terminal? | No |
| Does project upgrade how the roadway functions? | Yes |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | BGMPO CTP |
| CTP/LRTP Completion Year: | 2010 |
| Submitted by: | Division 7 |

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|---------|-----------------|----------------|
| Division 7 | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 0 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|---------|-----------------|----------------|
| Burlington Graham MPO | 62% | 62 | 0 |
| Triangle Area RPO | 38% | 38 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 100 | 0 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$70,683,000 | Cost Estimation Tool |
| Right-of-Way Cost: | \$16,744,000 | Cost Estimation Tool |
| Utilities Cost: | \$2,009,000 | Cost Estimation Tool |
| Total Project Cost: | \$89,436,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$89,436,000 | |